

0280

#2

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/023,219

DATE: 01/11/2002

TIME: 12:38:58

Input Set : A:\2318-282-II.ST25.txt

Output Set: N:\CRF3\01112002\J023219.raw

ENTERED

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3 <110> APPLICANT: Myriad Genetics, Inc.
4     Cimborra, Daniel M.
5     Heichman, Karen
6     Bartel, Paul L.
8 <120> TITLE OF INVENTION: Protein-Protein Interactions
10 <130> FILE REFERENCE: 2318-282-II
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/023,219
C--> 12 <141> CURRENT FILING DATE: 2001-12-20
12 <150> PRIOR APPLICATION NUMBER: US 60/256,983
13 <151> PRIOR FILING DATE: 2000-12-21
15 <160> NUMBER OF SEQ ID NOS: 4
17 <170> SOFTWARE: PatentIn version 3.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 40
21 <212> TYPE: DNA
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24 <220> FEATURE:
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44 <211> LENGTH: 10625
45 <212> TYPE: DNA
46 <213> ORGANISM: Homo sapiens
48 <220> FEATURE:
49 <221> NAME/KEY: CDS
50 <222> LOCATION: (544)..(6960)
52 <400> SEQUENCE: 3
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55 agccagagcc tgcagcacct tagtaacaga aaaactgata attaggagaa gagacctgtc          120
57 caagaccagg aacctggacc aaaattgtgc catgttgctt tactttaatg agtggcccca          180
59 gtaaaaactg agctgtatgg cagagctgtt cacatttacc ttctgtgtcc acccagttct          240
61 gctgaaaccc ctggcaagat cgtggccctg ttgtagcttg tcatgttttg aacagctgtc          300
63 tatggaaaga aagcaaacac aacctagagc aacattgatt tgtttttagaa agctctttta          360
65 ttttcagttc tggctgtggt caacatctta gcttacgttt ttcattgtgt aatgatctgc          420
67 cgtatggacg atcacctcta agttagagag ttctgtaatt tggcttggat taaagatgct          480
69 tggttagtga aagctgctgc tttttttata gtcaaaggac tggttctgag agccttggtg          540
71 cag atg gct gag gtc acc gtc cca agg gtg tat gtc gtg ttt ggc atc          588
72     Met Ala Glu Val Thr Val Pro Arg Val Tyr Val Val Phe Gly Ile

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| 73 | 1 | 5 | 10 | 15 | |
| 75 | cat tgc atc atg gcg aag gca tct tca gat gtg cag gtt tca ggc ttt | 636 | | | |
| 76 | His Cys Ile Met Ala Lys Ala Ser Ser Asp Val Gln Val Ser Gly Phe | | | | |
| 77 | 20 25 30 | | | | |
| 79 | cat cgg aaa atc cag cac gtt aaa aat gaa ctt tgc cac atg ttg agc | 684 | | | |
| 80 | His Arg Lys Ile Gln His Val Lys Asn Glu Leu Cys His Met Leu Ser | | | | |
| 81 | 35 40 45 | | | | |
| 83 | ttg gag gag gtg gcc cca gtg ctg cag cag aca tta ctt cag gac aac | 732 | | | |
| 84 | Leu Glu Glu Val Ala Pro Val Leu Gln Gln Thr Leu Leu Gln Asp Asn | | | | |
| 85 | 50 55 60 | | | | |
| 87 | ctc ttg ggc agg gta cat ttt gac caa ttt aaa gaa gca tta ata ctc | 780 | | | |
| 88 | Leu Leu Gly Arg Val His Phe Asp Gln Phe Lys Glu Ala Leu Ile Leu | | | | |
| 89 | 65 70 75 | | | | |
| 91 | atc ttg tcc aga act ctg tca aat gaa gaa cac ttt caa gaa cca gac | 828 | | | |
| 92 | Ile Leu Ser Arg Thr Leu Ser Asn Glu Glu His Phe Gln Glu Pro Asp | | | | |
| 93 | 80 85 90 95 | | | | |
| 95 | tgc tca cta gaa gct cag ccc aaa tat gtt aga ggt ggg aag cgt tac | 876 | | | |
| 96 | Cys Ser Leu Glu Ala Gln Pro Lys Tyr Val Arg Gly Gly Lys Arg Tyr | | | | |
| 97 | 100 105 110 | | | | |
| 99 | gga cga agg tcc ttg ccc gag ttc caa gag tcc gtg gag gag ttt cct | 924 | | | |
| 100 | Gly Arg Arg Ser Leu Pro Glu Phe Gln Glu Ser Val Glu Glu Phe Pro | | | | |
| 101 | 115 120 125 | | | | |
| 103 | gaa gtg acg gtg att gag cca ctg gat gaa gaa gcg cgg cct tca cac | 972 | | | |
| 104 | Glu Val Thr Val Ile Glu Pro Leu Asp Glu Glu Ala Arg Pro Ser His | | | | |
| 105 | 130 135 140 | | | | |
| 107 | atc cca gcc ggt gac tgc agt gag cac tgg aag acg caa cgc agt gag | 1020 | | | |
| 108 | Ile Pro Ala Gly Asp Cys Ser Glu His Trp Lys Thr Gln Arg Ser Glu | | | | |
| 109 | 145 150 155 | | | | |
| 111 | gag tat gaa gcg gaa ggc cag tta agg ttt tgg aac cca gat gac ttg | 1068 | | | |
| 112 | Glu Tyr Glu Ala Glu Gly Gln Leu Arg Phe Trp Asn Pro Asp Asp Leu | | | | |
| 113 | 160 165 170 175 | | | | |
| 115 | aat gct tca cag agt gga tct tcc cct ccc caa gac tgg ata gaa gag | 1116 | | | |
| 116 | Asn Ala Ser Gln Ser Gly Ser Ser Pro Pro Gln Asp Trp Ile Glu Glu | | | | |
| 117 | 180 185 190 | | | | |
| 119 | aaa ctg caa gaa gtt tgt gaa gat ttg ggg atc acc cgt gat ggt cac | 1164 | | | |
| 120 | Lys Leu Gln Glu Val Cys Glu Asp Leu Gly Ile Thr Arg Asp Gly His | | | | |
| 121 | 195 200 205 | | | | |
| 123 | ctg aac cgg aag aag ctg gtc tcc atc tgt gag cag tat ggt tta cag | 1212 | | | |
| 124 | Leu Asn Arg Lys Lys Leu Val Ser Ile Cys Glu Gln Tyr Gly Leu Gln | | | | |
| 125 | 210 215 220 | | | | |
| 127 | aat gtg gat gga gag atg ctc gag gaa gta ttc cat aat ctt gat cct | 1260 | | | |
| 128 | Asn Val Asp Gly Glu Met Leu Glu Glu Val Phe His Asn Leu Asp Pro | | | | |
| 129 | 225 230 235 | | | | |
| 131 | gac ggt aca atg agt gta gaa gat ttt ttc tat ggt ttg ttt aaa aat | 1308 | | | |
| 132 | Asp Gly Thr Met Ser Val Glu Asp Phe Phe Tyr Gly Leu Phe Lys Asn | | | | |
| 133 | 240 245 250 255 | | | | |
| 135 | gga aaa tct ctt aca cca tca gca tct act cca tat aga caa cta aaa | 1356 | | | |
| 136 | Gly Lys Ser Leu Thr Pro Ser Ala Ser Thr Pro Tyr Arg Gln Leu Lys | | | | |
| 137 | 260 265 270 | | | | |

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139 agg cac ctt tcc atg cag tct ttc gat gag agt gga cga cgt acc aca      1404
140 Arg His Leu Ser Met Gln Ser Phe Asp Glu Ser Gly Arg Arg Thr Thr
141          275          280          285
143 acc tca tca gca atg aca agt acc att ggc ttt cgg gtc ttc tcc tgc      1452
144 Thr Ser Ser Ala Met Thr Ser Thr Ile Gly Phe Arg Val Phe Ser Cys
145          290          295          300
147 ctg gat gat ggg atg ggc cat gca tct gtg gag aga ata ctg gac acc      1500
148 Leu Asp Asp Gly Met Gly His Ala Ser Val Glu Arg Ile Leu Asp Thr
149          305          310          315
151 tgg cag gaa gag ggc att gag aac agc cag gag atc ctg aag gcc ttg      1548
152 Trp Gln Glu Glu Gly Ile Glu Asn Ser Gln Glu Ile Leu Lys Ala Leu
153 320          325          330          335
155 gat ttc agc ctc gat gga aac atc aat ttg aca gaa tta aca ctg gcc      1596
156 Asp Phe Ser Leu Asp Gly Asn Ile Asn Leu Thr Glu Leu Thr Leu Ala
157          340          345          350
159 ctt gaa aat gaa ctt ttg gtt acc aag aac agc att cac cag gcg gct      1644
160 Leu Glu Asn Glu Leu Leu Val Thr Lys Asn Ser Ile His Gln Ala Ala
161          355          360          365
163 ctg gcc agc ttt aag gct gaa atc cgg cat ttg ttg gaa cga gtt gat      1692
164 Leu Ala Ser Phe Lys Ala Glu Ile Arg His Leu Leu Glu Arg Val Asp
165          370          375          380
167 cag gtg gtc aga gaa aaa gag aag cta cgg tca gat ctg gac aag gcc      1740
168 Gln Val Val Arg Glu Lys Glu Lys Leu Arg Ser Asp Leu Asp Lys Ala
169          385          390          395
171 gag aag ctc aag tct tta atg gcc tcg gag gtg gat gat cac cat gcg      1788
172 Glu Lys Leu Lys Ser Leu Met Ala Ser Glu Val Asp Asp His His Ala
173 400          405          410          415
175 gcc ata gag cgg cgg aat gag tac aac ctc agg aaa ctg gat gga gag      1836
176 Ala Ile Glu Arg Arg Asn Glu Tyr Asn Leu Arg Lys Leu Asp Gly Glu
177          420          425          430
179 tac aag gag cga ata gca gcc tta aaa aat gaa ctc cga aaa gag aga      1884
180 Tyr Lys Glu Arg Ile Ala Ala Leu Lys Asn Glu Leu Arg Lys Glu Arg
181          435          440          445
183 gag cag atc ctg cag cag gca ggc aag cag cgt tta gaa ctt gaa cag      1932
184 Glu Gln Ile Leu Gln Gln Ala Gly Lys Gln Arg Leu Glu Leu Glu Gln
185          450          455          460
187 gaa att gaa aag gca aaa aca gaa gag aac tat atc cgg gac cgc ctt      1980
188 Glu Ile Glu Lys Ala Lys Thr Glu Glu Asn Tyr Ile Arg Asp Arg Leu
189          465          470          475
191 gcc ctc tct tta aag gaa aac agt cgt ctg gaa aat gag ctt cta gaa      2028
192 Ala Leu Ser Leu Lys Glu Asn Ser Arg Leu Glu Asn Glu Leu Leu Glu
193 480          485          490          495
195 aat gca gag aag ttg gca gaa tat gag aat ctg aca aac aaa ctt cag      2076
196 Asn Ala Glu Lys Leu Ala Glu Tyr Glu Asn Leu Thr Asn Lys Leu Gln
197          500          505          510
199 aga aat ttg gaa aat gtg tta gca gaa aag ttt ggt gac ctc gat cct      2124
200 Arg Asn Leu Glu Asn Val Leu Ala Glu Lys Phe Gly Asp Leu Asp Pro
201          515          520          525
203 agc agt gct gag ttc ttc ctg caa gaa gag aga ctg aca cag atg aga      2172

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 204 | Ser | Ser | Ala | Glu | Phe | Phe | Leu | Gln | Glu | Glu | Arg | Leu | Thr | Gln | Met | Arg | |
| 205 | | | 530 | | | | | 535 | | | | | 540 | | | | |
| 207 | aat | gaa | tat | gag | cgg | cag | tgc | agg | gta | cta | caa | gac | caa | gta | gat | gaa | 2220 |
| 208 | Asn | Glu | Tyr | Glu | Arg | Gln | Cys | Arg | Val | Leu | Gln | Asp | Gln | Val | Asp | Glu | |
| 209 | | 545 | | | | | 550 | | | | | 555 | | | | | |
| 211 | ctc | cag | tct | gag | ctg | gaa | gaa | tat | cgt | gca | caa | ggc | aga | gtg | ctc | agg | 2268 |
| 212 | Leu | Gln | Ser | Glu | Leu | Glu | Glu | Tyr | Arg | Ala | Gln | Gly | Arg | Val | Leu | Arg | |
| 213 | 560 | | | | | | 565 | | | | | 570 | | | | 575 | |
| 215 | ctt | ccg | ttg | aag | aac | tca | ccg | tca | gaa | gaa | ggt | gag | gct | aac | agc | ggt | 2316 |
| 216 | Leu | Pro | Leu | Lys | Asn | Ser | Pro | Ser | Glu | Glu | Val | Glu | Ala | Asn | Ser | Gly | |
| 217 | | | | | 580 | | | | | | 585 | | | | 590 | | |
| 219 | ggc | att | gag | ccc | gaa | cac | ggg | ctc | ggt | tct | gaa | gaa | tgc | aac | cca | ttg | 2364 |
| 220 | Gly | Ile | Glu | Pro | Glu | His | Gly | Leu | Gly | Ser | Glu | Glu | Cys | Asn | Pro | Leu | |
| 221 | | | | 595 | | | | | 600 | | | | | 605 | | | |
| 223 | aat | atg | agc | att | gag | gca | gag | ctg | gtc | att | gaa | cag | atg | aaa | gaa | caa | 2412 |
| 224 | Asn | Met | Ser | Ile | Glu | Ala | Glu | Leu | Val | Ile | Glu | Gln | Met | Lys | Glu | Gln | |
| 225 | | | 610 | | | | | 615 | | | | | 620 | | | | |
| 227 | cat | cac | agg | gac | ata | tgt | tgc | ctc | aga | ctg | gag | ctc | gaa | gat | aaa | gtg | 2460 |
| 228 | His | His | Arg | Asp | Ile | Cys | Cys | Leu | Arg | Leu | Glu | Glu | Asp | Lys | Val | | |
| 229 | | 625 | | | | | 630 | | | | | 635 | | | | | |
| 231 | cgc | cat | tat | gaa | aag | cag | ctg | gac | gaa | acc | gtg | gtc | agc | tgc | aag | aag | 2508 |
| 232 | Arg | His | Tyr | Glu | Lys | Gln | Leu | Asp | Glu | Thr | Val | Val | Ser | Cys | Lys | Lys | |
| 233 | 640 | | | | | 645 | | | | | 650 | | | | | 655 | |
| 235 | gca | cag | gag | aac | atg | aag | caa | agg | cat | gag | aac | gaa | acg | cgc | acc | tta | 2556 |
| 236 | Ala | Gln | Glu | Asn | Met | Lys | Gln | Arg | His | Glu | Asn | Glu | Thr | Arg | Thr | Leu | |
| 237 | | | | 660 | | | | | | 665 | | | | | 670 | | |
| 239 | gaa | aaa | caa | ata | agt | gac | ctt | aaa | aat | gaa | att | gct | gaa | ctt | cag | ggg | 2604 |
| 240 | Glu | Lys | Gln | Ile | Ser | Asp | Leu | Lys | Asn | Glu | Ile | Ala | Glu | Leu | Gln | Gly | |
| 241 | | | 675 | | | | | 680 | | | | | | 685 | | | |
| 243 | caa | gca | gca | gtg | ctc | aag | gag | gca | cat | cat | gag | gcc | act | tgc | agg | cat | 2652 |
| 244 | Gln | Ala | Ala | Val | Leu | Lys | Glu | Ala | His | His | Glu | Ala | Thr | Cys | Arg | His | |
| 245 | | | 690 | | | | | 695 | | | | | 700 | | | | |
| 247 | gag | gag | gag | aaa | aaa | caa | ctg | caa | gtg | aag | ctt | gag | gag | gaa | aag | act | 2700 |
| 248 | Glu | Glu | Glu | Lys | Lys | Gln | Leu | Gln | Val | Lys | Leu | Glu | Glu | Glu | Lys | Thr | |
| 249 | | 705 | | | | 710 | | | | | | 715 | | | | | |
| 251 | cac | ctg | cag | gag | aag | ctg | agg | ctg | caa | cat | gag | atg | gag | ctc | aag | gct | 2748 |
| 252 | His | Leu | Gln | Glu | Lys | Leu | Arg | Leu | Gln | His | Glu | Met | Glu | Leu | Lys | Ala | |
| 253 | 720 | | | | | 725 | | | | | 730 | | | | 735 | | |
| 255 | aga | ctg | aca | cag | gct | caa | gca | agc | ttt | gag | cgg | gag | agg | gaa | ggc | ctt | 2796 |
| 256 | Arg | Leu | Thr | Gln | Ala | Gln | Ala | Ser | Phe | Glu | Arg | Glu | Arg | Glu | Gly | Leu | |
| 257 | | | | 740 | | | | | | 745 | | | | | 750 | | |
| 259 | cag | agt | agc | gcc | tgg | aca | gaa | gag | aag | gtg | aga | ggc | ttg | act | cag | gaa | 2844 |
| 260 | Gln | Ser | Ser | Ala | Trp | Thr | Glu | Glu | Lys | Val | Arg | Gly | Leu | Thr | Gln | Glu | |
| 261 | | | 755 | | | | | | 760 | | | | | 765 | | | |
| 263 | cta | gag | cag | ttt | cac | cag | gag | cag | ctg | aca | agc | ctg | gtg | gag | aaa | cac | 2892 |
| 264 | Leu | Glu | Gln | Phe | His | Gln | Glu | Gln | Leu | Thr | Ser | Leu | Val | Glu | Lys | His | |
| 265 | | | 770 | | | | | 775 | | | | | 780 | | | | |
| 267 | act | ctt | gag | aaa | gag | gag | tta | aga | aaa | gag | ctc | ttg | gaa | aag | cac | caa | 2940 |
| 268 | Thr | Leu | Glu | Lys | Glu | Glu | Leu | Arg | Lys | Glu | Leu | Leu | Glu | Lys | His | Gln | |

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| 272 | Arg Glu Leu Gln Glu Gly Arg Glu Lys Met Glu Thr Glu Cys Asn Arg | | | |
| 273 | 800 805 810 815 | | | |
| 275 | aga acc tct caa ata gaa gcc cag ttt cag tct gat tgt cag aaa gtc | 3036 | | |
| 276 | Arg Thr Ser Gln Ile Glu Ala Gln Phe Gln Ser Asp Cys Gln Lys Val | | | |
| 277 | 820 825 830 | | | |
| 279 | act gag agg tgt gaa agc gct ctg caa agc ctg gag ggg cgc tac cgc | 3084 | | |
| 280 | Thr Glu Arg Cys Glu Ser Ala Leu Gln Ser Leu Glu Gly Arg Tyr Arg | | | |
| 281 | 835 840 845 | | | |
| 283 | caa gag ctg aag gac ctc cag gaa cag cag cgt gag gag aaa tcc cag | 3132 | | |
| 284 | Gln Glu Leu Lys Asp Leu Gln Glu Gln Gln Arg Glu Glu Lys Ser Gln | | | |
| 285 | 850 855 860 | | | |
| 287 | tgg gaa ttt gag aag gac gag ctc acc cag gag tgt gcg gaa gcc cag | 3180 | | |
| 288 | Trp Glu Phe Glu Lys Asp Glu Leu Thr Gln Glu Cys Ala Glu Ala Gln | | | |
| 289 | 865 870 875 | | | |
| 291 | gag ctg ctg aaa gag act ctt aag aga gag aaa aca act tct ctg gtc | 3228 | | |
| 292 | Glu Leu Leu Lys Glu Thr Leu Lys Arg Glu Lys Thr Thr Ser Leu Val | | | |
| 293 | 880 885 890 895 | | | |
| 295 | ctg acc cag gag aga gag atg ctg gag aaa aca tac aaa gaa cat ttg | 3276 | | |
| 296 | Leu Thr Gln Glu Arg Glu Met Leu Glu Lys Thr Tyr Lys Glu His Leu | | | |
| 297 | 900 905 910 | | | |
| 299 | aac agc atg gtc gtc gag aga cag cag cta ctc caa gac ctg gaa gac | 3324 | | |
| 300 | Asn Ser Met Val Val Glu Arg Gln Gln Leu Leu Gln Asp Leu Glu Asp | | | |
| 301 | 915 920 925 | | | |
| 303 | cta aga aat gta tct gaa acc cag caa agc ctg ctg tct gac cag ata | 3372 | | |
| 304 | Leu Arg Asn Val Ser Glu Thr Gln Gln Ser Leu Leu Ser Asp Gln Ile | | | |
| 305 | 930 935 940 | | | |
| 307 | ctt gag ctg aag agc agt cac aaa agg gaa ctg agg gag cgt gag gag | 3420 | | |
| 308 | Leu Glu Leu Lys Ser Ser His Lys Arg Glu Leu Arg Glu Arg Glu Glu | | | |
| 309 | 945 950 955 | | | |
| 311 | gtc ctg tgc cag gca ggg gct tcg gag cag ctg gcc agc cag cgg ctg | 3468 | | |
| 312 | Val Leu Cys Gln Ala Gly Ala Ser Glu Gln Leu Ala Ser Gln Arg Leu | | | |
| 313 | 960 965 970 975 | | | |
| 315 | gaa aga cta gaa atg gaa cat gac cag gaa agg cag gaa atg atg tcc | 3516 | | |
| 316 | Glu Arg Leu Glu Met Glu His Asp Gln Glu Arg Gln Glu Met Met Ser | | | |
| 317 | 980 985 990 | | | |
| 319 | aag ctt cta gcc atg gag aac att cac aaa gcg acc tgt gag aca gca | 3564 | | |
| 320 | Lys Leu Leu Ala Met Glu Asn Ile His Lys Ala Thr Cys Glu Thr Ala | | | |
| 321 | 995 1000 1005 | | | |
| 323 | gat cga gaa aga gcc gag atg agc aca gaa atc tcc aga ctt cag | 3609 | | |
| 324 | Asp Arg Glu Arg Ala Glu Met Ser Thr Glu Ile Ser Arg Leu Gln | | | |
| 325 | 1010 1015 1020 | | | |
| 327 | agt aaa ata aag gaa atg cag cag gca aca tct cct ctc tca atg | 3654 | | |
| 328 | Ser Lys Ile Lys Glu Met Gln Gln Ala Thr Ser Pro Leu Ser Met | | | |
| 329 | 1025 1030 1035 | | | |
| 331 | ctt cag agt ggt tgc cag gtg ata gga gag gag gag gtg gaa gga | 3699 | | |
| 332 | Leu Gln Ser Gly Cys Gln Val Ile Gly Glu Glu Glu Val Glu Gly | | | |
| 333 | 1040 1045 1050 | | | |

VERIFICATION SUMMARY

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:22 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:34 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2